

Appln. No.10/655,863

Attorney Docket No. 10541-1840

I. Listing of Claims

1. (Currently Amended) A valve for a fuel delivery system, comprising:

an input in communication with a fuel pump and a fuel rail, wherein said fuel rail supplies fuel to an engine, said input being at one of an operating pressure, a first residual pressure, and a second residual pressure, said ~~first~~ second residual pressure being above said ~~second~~ first residual pressure;

a first sealing member and first seat, said first sealing member and said first seat abutting at said operating pressure and said first sealing member and said first seat being unsealed at said first and second residual pressures;

a second sealing member and a second seat, said second sealing member and said second seat abutting at said first residual pressure and said second sealing member and said second seat being unsealed at said second residual pressure; and

wherein said first sealing member and said first seat are in communication with said second sealing member and said second seat, said abutting of said first sealing member and first seat preventing flow through said second sealing member and said second seat.

2. (Original) The valve according to claim 1, wherein said first sealing member, said first seat, said second sealing member and said second seat are disposed within a fuel tank.

3. (Original) The valve according to claim 1, in combination with a parallel pressure relief valve, wherein said first sealing member, said first seat, said second sealing member and said second seat are integrated into said parallel pressure relief valve, thereby forming a single valve assembly.

4. (Original) The valve according to claim 1, in combination with a fuel line in communication with said fuel rail, said fuel line terminating at a bottom of a fuel tank, wherein said fuel rail retrieves fuel from said fuel tank through said fuel line when fuel in said fuel rail is at a pressure below said second fuel pressure.

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5. (Original) The valve according to claim 1, in combination with a fuel line in communication with said fuel rail, said fuel line terminating above a bottom of a fuel tank, wherein said fuel rail retrieves fuel vapor from said fuel tank through said fuel line when fuel in said fuel rail is at a pressure below said second fuel pressure.

6. (Original) The valve according to claim 1, further comprising a first spring; wherein said first spring biases said first sealing member away from said first seat, said first seat is disposed away from said input, and said first sealing member is disposed between said input and said first seat.

7. (Original) The valve according to claim 1, further comprising a second spring; wherein said second spring biases said second sealing member against said second seat, said second seat is disposed away from an output, and said second sealing member is disposed between said output and said second seat.

8. (Original) The valve according to claim 1, further comprising a first spring; wherein said first spring biases said first sealing member away from said first seat, said first seat is disposed away from said input, and said first sealing member is disposed between said input and said first seat; further comprising a second spring; wherein said second spring biases said second sealing member against said second seat, said second seat is disposed away from an output, and said second sealing member is disposed between said output and said second seat.

9. (Currently Amended) The valve according to claim 1, wherein said first sealing member and said second sealing member are joined as a single, unitary component.

10. (Original) The valve according to claim 1, wherein said first sealing member and said second sealing member are joined; further comprising a spring disposed between said joined first and second sealing members and an output; and wherein said first seat is disposed between said joined first and second sealing members and said output, and said second seat is disposed between said joined first and second sealing members and said input.

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11. (Original) The valve according to claim 10, wherein said first sealing member, said first seat, said second sealing member and said second seat are disposed within a fuel tank.

12. (Original) The valve according to claim 11, in combination with a fuel line in communication with said fuel rail, said fuel line terminating at a bottom of a fuel tank, wherein said fuel rail retrieves fuel from said fuel tank through said fuel line when fuel in said fuel rail is at a pressure below said second fuel pressure.

13. (Original) The valve according to claim 12, in combination with a parallel pressure relief valve, wherein said first sealing member, said first seat, said second sealing member and said second seat are integrated into said parallel pressure relief valve, thereby forming a single valve assembly.

14. (Original) The valve according to claim 10, in combination with a parallel pressure relief valve, wherein said first sealing member, said first seat, said second sealing member and said second seat are integrated into said parallel pressure relief valve, thereby forming a single valve assembly.

15. (Original) The valve according to claim 1, wherein said first sealing member and said second sealing member are joined and wherein said first seat and said second seat are joined; further comprising a spring disposed between said joined first and second sealing members and an output; and wherein said joined first and second seats are disposed between said first sealing member and said second sealing member.

16. (Original) The valve according to claim 15, wherein said first sealing member, said first seat, said second sealing member and said second seat are disposed within a fuel tank.

17. (Original) The valve according to claim 16, in combination with a fuel line in communication with said fuel rail, said fuel line terminating at a bottom of a

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fuel tank, wherein said fuel line terminating at a bottom of a fuel tank, wherein said fuel rail retrieves fuel from said fuel tank through said fuel line when fuel in said fuel rail is at a pressure below said second fuel pressure.

18. (Original) The valve according to claim 17, in combination with a parallel pressure relief valve, wherein said first sealing member, said first seat, said second sealing member and said second seat are integrated into said parallel pressure relief valve, thereby forming a single valve assembly.

19. (Original) The valve according to claim 15, in combination with a parallel pressure relief valve, wherein said first sealing member, said first seat, said second sealing member and said second seat are integrated into said parallel pressure relief valve, thereby forming a single valve assembly.

20. (Original) The valve according to claim 1, wherein said first sealing member is a vane.

21. (Currently Amended) A fuel delivery system for an engine, comprising:
a fuel tank containing a value of fuel;
a fuel pump in fluid communication with said fuel tank pressurizing said fuel;
a fuel rail in fluid communication with said fuel pump receiving said pressurized fuel;

an injector in fluid communication with said fuel rail supplying said pressurized fuel to said engine;

a first valve in fluid communication with said fuel rail maintaining said fuel in a pressurized state; and

a second valve in fluid communication with said fuel rail relieving said pressurized state of said fuel when said engine is not operating and forming a fluid-tight seal to prevent the relieving of said pressurized state through the second valve when the engine is operating.

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22. (Original) The fuel delivery system according to claim 21, wherein said second valve relieves said pressurized state of said fuel in response to thermal expansion.

23. (New) The valve according to claim 9, wherein said component is generally spherical, said first sealing member is a first portion of said component, and said second sealing member is a second portion of said component.

24. (New) The valve according to claim 9, wherein said component is a poppet valve, said first sealing member is a first vane surface, and said second sealing member is a second vane surface.

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